

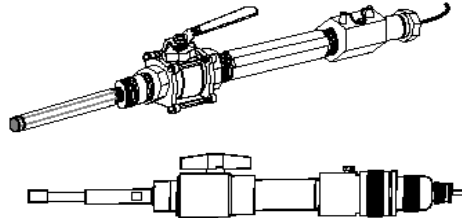
4909 and 4908 Conductivity Cells

Model Selection Guide with Price Data

Model Selection Guide
51-52-16-15 Issue 20

Honeywell Proprietary

- Allows insertion or removal of cell without interruption to process
- Available in 316 stainless steel or CPVC
- Allows safe removal at pressures up to 50 psi



Top: 4909 SS Insertion/Removal Cell Assembly
Bottom: 4909 CPVC Plastic Insertion/Removal Cell Assembly

Instructions

- Consult Steps to Selecting Appropriate Conductivity Instrumentation and Cells before making selections below.
- Select the desired key number. The arrow to the right marks the selection available.
- Make one selection from each Table using the column below the proper arrow.
A dot denotes unrestricted availability.

List Price equals the sum of all prices for all selections made.

Key Number I II III IV V VI VII

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KEY NUMBER Selection Availability

Description				
04909 Complete Conductivity Cell Assembly	(Notes 2 & 3)	04909	↓	
04908 Replacement Cell Only	(Notes 1 & 3)	04908		↓

TABLE I - Cell Constant

Cell Constant				
0.01		001	•	•
0.1		X01	•	•
1		XX1	•	•
10		X10	•	•
50		X50	k	k

TABLE II - Electrode Material

Electrode Material				
Nickel		33	•	•
Platinum		44	•	•

TABLE III - Automatic Temperature Compensation

Available for APT2000/4000CC, 9782C, or 7082 Only		333	f	f
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049
↓ ↓

TABLE IV - Leadwire Length

		Selection	09	08
Leadwire Length	20 ft. (6,10 meters) Leadwire	(Note 6)	20	•
	Junction Head (Aluminum)		X1	•

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TABLE V - Valve/Cell Materials

Valve/Cell Material	Material			
4909 Stainless Steel (SS) Valve Assembly	Includes SS Valve assembly and Standard insertion cell	02	c	
4908 PES Replacement Cell for 4909 SS Valve Assembly	Standard insertion cell only	02		c
4909 CPVC Valve Assembly	Includes CPVC assembly and standard CPVC Support tube and cell	03	d	
4908 PES Replacement Cell for CPVC Valve Assembly	Cell only	03		d

TABLE VI - Special Mounting Options

Special Mounting Options - select one option per unit				
None		000	•	•
SS support tube for 4909 SS Valve assemblies only. Use Table V Option = 02		930	e, m	
4908 replacement cells for 4909 SS Valve Assembly containing SS Support tube. Use Table V Option = 02		930		e, m
Special insertion lengths for new/replacement cells for 4909 SS Valve Assemblies. Only available for Table V Option = 02	Uses special insertion cell to increase standard insertion cell depth by 4.4" (111,76 mm)	910	h, m	h, m

TABLE VII - OPTIONS

Tagging	None	0_	•	•
	Linen	L_	•	•
	Stainless Steel	S_	•	•
Certificate of Calibration	None	(Note 5)	_ 0	•
	Calibration & Conformance	(Note 5)	_ 3	•

Notes:

1. Replacement cells only, caution look at Restrictions for insertion depth dimensions based on valve assembly type.
2. When converting from 4806 to 4909, order 4908 directly.
3. Replacement 4908 cells for existing 4908's and 4909's manufactured before 8/85 must specify Table V = 02.
4. The current selection system requires that Option 1 or 2 be chosen if a certificate is to be sent along with any of the available 4909/4908 cells.
5. Platinum is used in acid and base applications; Nickel is used in all others.
6. If shorter length is required, cut to length, skin and tin ends.

RESTRICTIONS

Restriction Letter	Available Only With		Not Available With	
	Table	Selection	Table	Selection
c	V	Standard insertion cell for SS valve assemblies consists of a conductivity cell of variable length based on the cell constant and a 13.2" (335,28 mm) PES tube molded to the cell. The conductivity cell insertion depth is listed below: 001, X01, XX1 = 7.5 in. (190,50 mm) X10 = 7.7 in. (195,58 mm) X25, X50 = 8.8 in. (223,52 mm)		
d	V	Standard conductivity cell insertion depth dimensions according to cell constants for CPVC assemblies is listed below: 001, X01, XX1 = 5.5 in. (139,70 mm) X10 = 5.7 in. (144,78 mm) X25, X50 = 6.8 in. (172,72 mm)		
e	V	02		X25, X50
f	III	For APT2000/4000CC, 9782C, or 7082 Only		
h	V	02		
k	I	For 9782C and 7082 Only		
m	III	333 "Consult Ft. Washington for other temperature compensator selections"		

4909 and 4908 Conductivity Cells

Accessories and Replacement Parts

Honeywell Proprietary

Accessory Parts	Part Number
Junction Box	31316260
Ball Valve Removal device	
316 SS (doesn't include 4908 Cell)	31741450
CPVC (doesn't include 4908 Cell)	31074357
CPVC Support tube. Used in 31074357 to extend cell insertion depth by 6". Allow additional 6" for cell removal.	31074344
SS Support Tube for use with: Table IV = X7 or 20 , Table V = 02, Table VI = 930	51450837-001
SS Support Tube for use with: Table IV = X1, Table V = 02, Table VI = 930	51450838-001
Cell Extension Leadwire	
For ATC value of 333:	
Standard Range 9782 or 7082, also APT2000	
To 1000 ft:	
3-conductor, 18 gage cable (Belden 9493) and	834059
Coax cable (Belden 9259)	835024
Wide Range 9782 and 7082	
To 1000 ft:	
4-conductor, 18 gage, cable only	31834052
For all cells with an ATC other than 333:	
3-conductor, 18 gage cable (Belden 9493) only	834059
Direction Manual for 4909 & 4908	
CPVC	70-82-25-19
Stainless Steel	70-82-25-68

Replacement Parts	Part Number
Viton Packing Gland for 1-1/4" NPT SS Assembly	31071494
Viton Packing Gland for 1-1/4" NPT Plastic Assembly	31074345